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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/783,312 | 02/19/2004 | William Reade Kem | UF-360XC1 | 7832 |

23557 7590 11/15/2005

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| EXAMINER |
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GREEN, ANTHONY J

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| ART UNIT | PAPER NUMBER |
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1755

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/783,312

Applicant(s)

KEM ET AL

Examiner

Anthony J. Green

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 October 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 26 October 2005 has been entered. Applicant's arguments have been carefully considered and are deemed to overcome the 103 rejection of the claims.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-5 and 7-9 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claims contain subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

As stated in the previous office action the insertion of the phrase "wherein the compound...adjacent to the nitrogen" in the independent claims is considered to be new

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matter as it is broader than the enabling disclosure. Applicant is required to cancel the new matter in response to this office action.

Applicant argues that the phrase is not new matter as "the instant application includes teachings, figures, and representative compounds that fall within the scope of the compounds recited in claims 1 and 7. Not only does the specification discuss common structural and functional features of the antifouling compounds utilized by the claimed invention, the specification also discloses a number of representative compounds that form the basis for the genus cited in claims 1 and 7."

To this argument the examiner respectfully disagrees. While the specification and figures do teach compounds that fall within the claimed limitations, the inserted limitation is broad enough to include many other compounds that are not contemplated, envisioned or taught by the applicants in the instant specification. Accordingly the inserted phrase is considered to be new matter and should be canceled.

Claim Rejections - 35 USC § 102/103

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

5. Claims 7-9 are rejected under 35 U.S.C, 102(e) as being anticipated by Itabashi et al (US patent No. 6,900,394) for the reasons set forth in the previous office action and which are herein incorporated by reference.

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Applicant argues that the instant claims are not met by the reference as the "surface treatments utilized in the claimed compositions do not encompass copper sulfate, as disclosed in the '394 patent. Copper sulfate is not a treatment suitable for a surface exposed to an aquatic environment."

To these arguments the examiner respectfully disagrees. First of all, Applicant's arguments are not commensurate in scope with the CLAIMED invention. Secondly, applicant has not shown that copper sulfate is not a treatment suitable for a surface exposed to an aquatic environment. Accordingly the instant claims are met by the reference.

6. Claims 1 , 3-4, 7 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Nakamura et al (US Patent No. 6,753,397) for the reasons set forth in the previous office action and which are herein incorporated by reference.

Applicant argues that the instant claims are not met by the reference as "the patent fails to teach methods and compositions that utilized the compounds recited in the rejected claims. Specifically, the '397 patent is silent regarding compounds comprising a pyridyl group attached to a nitrogen-containing cyclic group at a carbon adjacent to the nitrogen".

To these arguments the examiner respectfully disagrees. It is the position of the examiner that the phenanthroline of the reference meets the limitations found in the independent claims. Applicant has not shown that the structure of phenanthroline does not possess the claimed limitations of "wherein the compound...adjacent to the

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nitrogen". Note that applicant recites a phenanthroline compound in claim 2 and this structure is supposed to meet the claimed limitations. Accordingly the instant claims are met by the reference absent evidence showing otherwise.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).


A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony J. Green whose telephone number is 571-272-1367. The examiner can normally be reached on Monday-Thursday 6:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Anthony J. Green
Primary Examiner
Art Unit 1755

ajg
November 10, 2005